

FORCE & MOTION STUDY GUIDE

vocabulary words to know

- **Force** push or a pull on an object
- **Net Force** the overall force exerted on an object
- **Unbalanced forces** unequal forces on object. **Will** change because the net force is **greater**
- **Balanced Forces** equal forces on object's motion. **Will NOT** change because the net force is **zero**
- **Friction** the resistance that one surface or object encounters when moving over another
- **Gravity** a non contact force that pulls all objects that have mass toward one another
- **Inertia** an object's tendency to resist a change in motion
- **Mass** the amount of matter something has (measured in grams)
- **Position** a change in position of an object with respect to time
- **Speed** how fast an object moves
- **Weight** force of gravity on the object
- **Velocity** the rate of motion in a specific direction (speed + a direction)

$$\text{SPEED} = \frac{\text{DISTANCE}}{\text{TIME}}$$

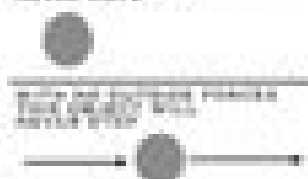


Calculate the **SPEED** of a train that traveled 100 miles in 2 hours.

NEWTON'S LAWS OF MOTION

1. **First Law (aka Law of Inertia)** an object at rest tends to stay at rest, and an object in motion tends to stay in motion, with the same direction and speed

WITH AN **EXTERNAL FORCE**
IT **WILL** **ACCELERATE**



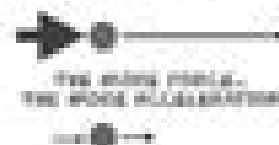
EXAMPLE:

the planets orbiting the Sun (the Sun's gravitational pull holds the planets in orbit)



2. **Second Law:** Force = mass x acceleration

$$F = ma$$



EXAMPLE:

it takes more force to push an adult on a swing than it does to push a child



FORCE & MOTION QUIZ

Directions: Match the word with the definition.

- | | |
|----------------------------|---|
| 1. W/OUT | A. an object's tendency to resist a change in motion |
| 2. UNBALANCED FORCE | B. a non contact force that pulls all objects that have mass toward one another |
| 3. BALANCED FORCE | C. the resistance that an object encounters when moving over another |
| 4. INERTIA | D. an object's motion will not change because the net force is zero |
| 5. GRAVITY | E. an object's motion will change because the net force is NOT zero |
| 6. MASS | F. push or a pull on an object |

Directions: Choose the best answer.

1. Which of Newton's 3 laws explains a rocket blasting off into space?
 - a. Newton's 1st Law
 - b. Newton's 2nd Law
 - c. Newton's 3rd Law
 - d. Newton's 4th Law

FORCE & MOTION QUIZ ANSWER KEY

Directions: Match the word with the definition.

- | | | |
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| 1. W/OUT | F | A. an object's tendency to resist a change in motion |
| 2. UNBALANCED FORCE | E | B. a non contact force that pulls all objects that have mass toward one another |
| 3. BALANCED FORCE | D | C. the resistance that an object encounters when moving over another |
| 4. INERTIA | A | D. an object's motion will not change because the net force is zero |
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